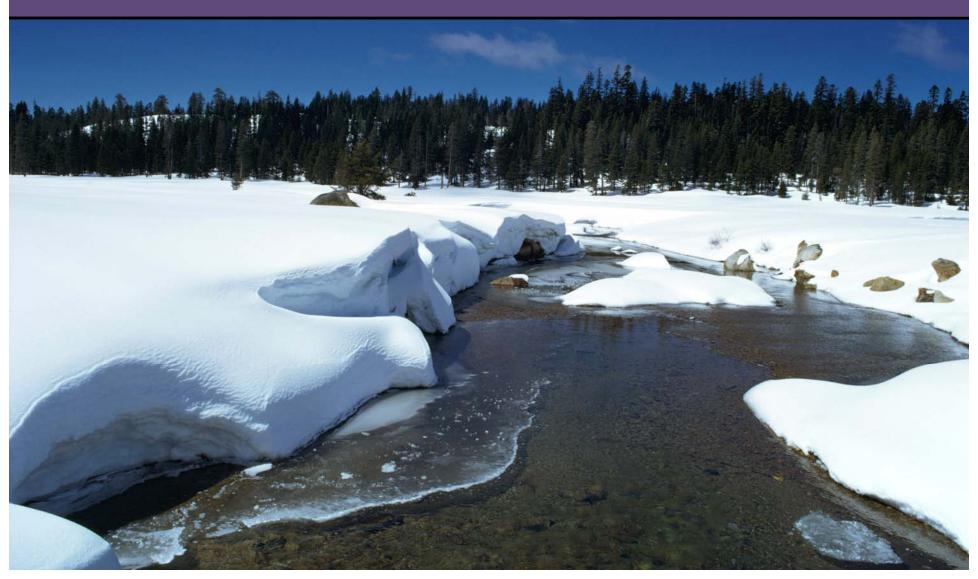
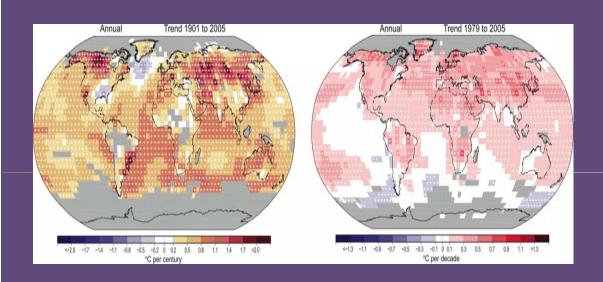


CLIMATE CHANGE

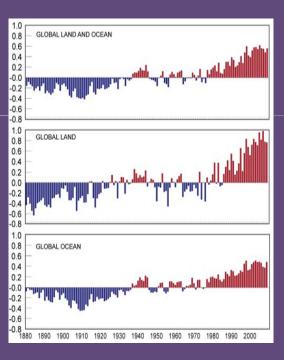
AT THE DEPARTMENT OF WATER RESOURCES



Climate Science



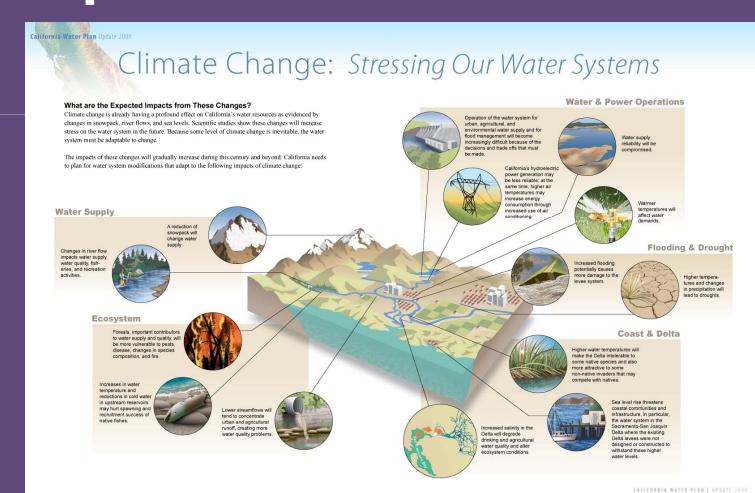




In the Next 40 years....

- 3.5 11° F temp rise
- 25 40 % less snowpack
- More intense wet and dry periods
- Higher flood peaks
- Less summer runoff
- Sea Level rise: 4-16" (7-55" by end of century)
- Increased salinity in the Delta

Water Sector Impacts to California



Regional Strategies

Integrated Regional Water Management (IRWM)

- Project Solicitation Packages (PSP's) incorporate climate change
- Grant program Guidelines address both adaptation and mitigation
- Climate Change Clearinghouse and Handbook



Tertiary treatment at Desert Water Agency

Statewide Strategies

- Greater flexibility in meeting competing objectives
- Flood management that accounts for higher variability
- Emphasize environmental stewardship
- Central Valley Flood Protection Plan (2012) to address climate change impacts



Jones Tract levee break, June 2004

CWP 2009 Climate Change

Temperature Projections

Precipitation Projections

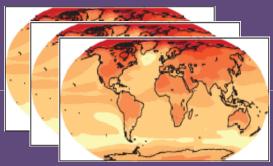
Global Circulation Models

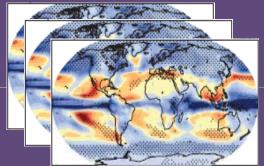


Downscaled Local Weather

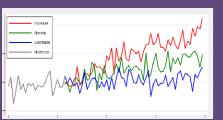


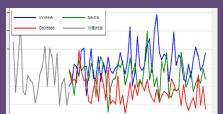
Irrigation Demand and Hydrologic Flows



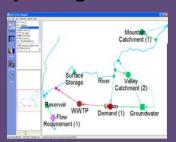


Local time series of monthly weather





Hydrologic Model



CWP 2013

Climate Change

REGIONAL FORUMS

- Full time DWR Climate Change Staff supporting multiple DWR CC efforts
- Scientifically sound approach to address CC regionally in CA

TECHNICAL EXPERTISE

- CCTAG Climate Change Technical Advisory
 Group
- SWAN Statewide Water Analysis Network